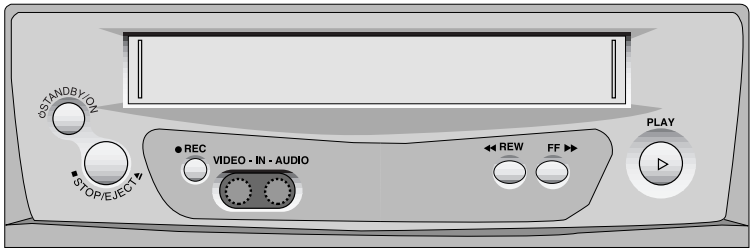
S107WY-BB/E 2000.4.65:1 PM 페이지34

OWNER'S MANUAL

DAEWOO

AIO64

Video Cassette Recorder
DV-S103WN



VHS
PAL NTSC

DRAWING YOUR ATTENTION

Thank you purchasing this VCP, developed to provide advanced features and functions for high quality performance.
To obtain the best results and to avoid malfunction, PLEASE CAREFULLY READ THE DESCRIPTIONS AND OPERATING PROCEDURE CONTAINED IN THIS OWNER'S MANUAL PRIOR TO OPERATING THIS VCP.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE OF THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION

RISK OF ELECTRIC SHOCKS
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intend to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this polarized plug with an extension cord receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Warning: This video cassette player should be used with AC 90 -250V~, 50/60Hz.
To prevent electric shocks and fire hazards, do NOT use any other power source.

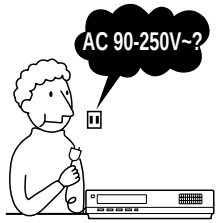
Caution: Any changes or modification in construction of device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
When you are not using the VCP for along period, it is recommended that you disconnect the power cord from the AC outlet.

IMPORTANT SAFEGUARDS

For your protection, please read these safety instructions completely before operating the appliance, and keep this manual for future reference.
Carefully observe all warnings, precautions, and instructions on the appliance, or the ones described in the operating instructions and adhere to them.

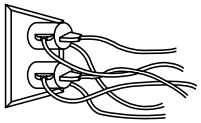
USE

Power Sources–This set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of electrical power supply at your home, consult your dealer or local power company. For those sets designed to operate from AC 90-250V~, 50/60Hz.

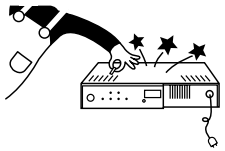


Grounding or Polarization–This set is equipped with a polarized AC power cord plug (a plug having one blade wider than the other), or with a threewire grounding type plug (a plug having a third pin for grounding).
Follow the instructions below.

Overloading–Do not overload wall outlets, extension cords or convenience receptacle beyond their capacity, since this can result in fire or electric shock.

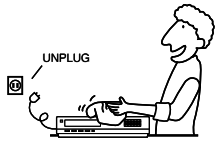


Object and Liquid Entry–Never push objects of any kind into the set through openings as they may touch dangerous voltage points or shart out parts that could result in a fire or electric shock.
Never spill liquid of any kind on the set.

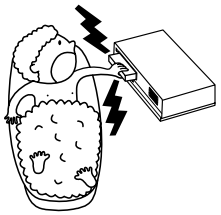


Attachments–Do not use attachments not recommended by the manufacturer, as they may cause hazards.

Cleaning–Unplug the set from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampended with water for cleaning the exterior of the set.



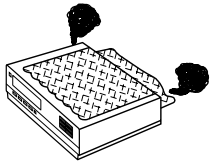
Water and Moisture–Do not use powerline operated sets near water-for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.



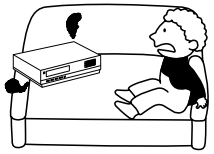
Accessories–Do not place the set on an unstable cart, stand, tripod, bracket, or table. The set may fall, causing serious injury to a child or an adult, and serious damage to the set. Use only a cart stand, tripod, bracket, or table recommended by the manufacturer.

Ventilation–The slots and openings in the cabinet are provided for necessary ventilation. To ensure reliable operation of the set, and to protect it from overheating, these slots and openings must never be blocked or covered.

– Never cover the slots and openings with a cloth or other materials.

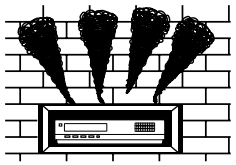


– Never block the slots and openings by placing the set on a bed, sofa, rug or other similar surface.

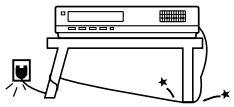


Portable Cart Warning–An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

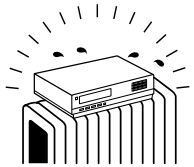
–Never place the set in a confined space such as a bookcase, or built-in cabinet unless proper ventilation is provided.



Power-Cord Protection–Route the power cord in order not to be walked on or pinched by items placed upon or against them, paying particular attention to the plugs, receptacles, and the point where the cord exits from the appliance.

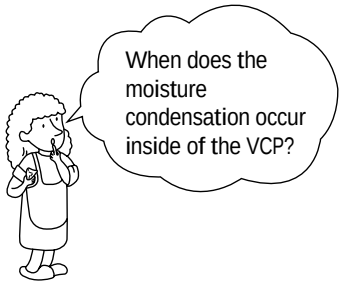


–Do not place the set over a radiator or heat register, or where it is exposed to direct sunlight.

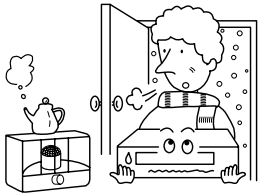


MOISTURE CONDENSATION

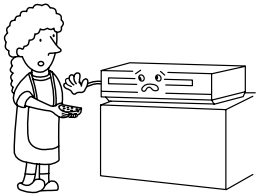
In the normal temperature, if you pour a cold liquid into a glass, water vapour in the air will condense on the surface of the glass. This is moisture condensation. The moisture condensation may occur inside of VCPs, if used in this condition, it will cause damage to the head and the tape.



In case of moving the VCP from a cold place to heated place,
Or the temperature of surroundings goes up due to room heating switched on.
Or moving the VCP suddenly from air conditioned room to a place of high temperature of humidity in summer.



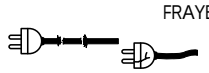
When the moisture condensation occurs inside of the VCP, NEVER insert the cassette into the cassette compartment. Remove the cassette, if loaded, by pressing the STOP/EJECT key. Only operate the VCP after the moisture condensation has completely dried out. Normally, it takes about 2 hours.



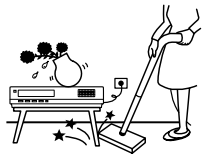
SERVICE

Damage Requiring Service–Unplug the set from the wall outlet and refer servicing to qualified service personnel under the following conditions:

–When the power cord or plug is damaged or frayed.

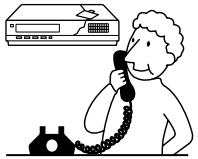


–If liquid has been spilled or objects have fallen into the set.

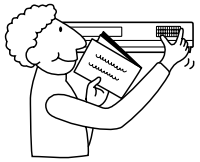


–If the set has been exposed to rain or water.

–If the set has been subjected to excessive shock by being dropped, or the cabinet has been damaged.

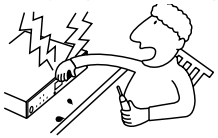


–If the set does not operate normally when following the operating instructions, adjust only those controls that are specified in the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the set to normal operation.



–When the set exhibits a distinct change in performance, this indicates a need for service.

Servicing–Do not attempt to service the set yourself as opening or removing covers may expose you to dangerous voltage or other hazards.
Refer all servicing to qualified service personnel.



Replacement of parts–When replacement of parts is required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

Safety Check–Upon completion of any service or repairs to the set, ask the service technician to perform routine safety checks (as specified by the manufacturer) to determine that the set is in safe operating condition.

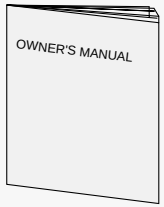
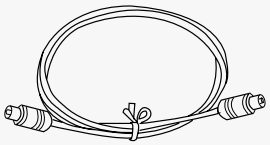
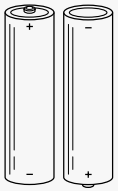
IMPORTANT NOTES

- Audio-visual material may include works of copyright which must NOT be recorded without the authority of the owner of copyright.
- Note that main voltage is supplied to the unit whenever the main plug is connected to the supply socket.
- To avoid the risk of fire or electric shock, do not expose the unit to rain or moisture.
- Do not attempt to open the cabinet. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Keep the unit away from radiators or other sources of heat.
- Do not operate or store the unit close to strong magnetic fields.
- Do not spill liquid of any kind onto the unit. If liquid is accidentally spilled onto the unit, immediately remove the main plug from the supply socket, and consult a qualified service engineer.
- Avoid places subjected to strong vibration.
- Do not place anything heavy on the VCP.
- Use the video cassette player in a horizontal (flat) position only.
- Before operating, remove any paper wrapping which may have been affixed to the player during manufacturing.
  DO NOT COVER VENTILATION OPENINGS ON TOP AND SIDES OF THE PLAYER DURING OPERATION.
- When a cassette is inserted into the loading compartment, the power is switched on automatically as long as the power cord is plugged into an AC outlet. DO NOT force a cassette into the compartment when the power cord is unplugged.
- Keep the player and video cassette away from strong magnetic fields.
- After playing a video cassette, remove it from the player. DO NOT move the player with a cassette in the compartment.
- Store video cassettes in their sleeves or cases and position vertically.
- If a cassette has been subjected to cold temperature, allow it to warm to room temperature before recording or playback.

For your protection, record the model and serial numbers of your video cassette player here. In the event your player requires servicing or is stolen, you may need this information. You may also wish to clip or staple your sales receipt to this page.

Model Number: _____
Serial Number: _____
Date Purchased: _____
Store's Name and Address: _____

ACCESSORIES

1. INSTRUCTION MANUAL	2. REMOTE CONTROL	3. RF CABLE	4. BATTERIES (AAA SIZE)
			

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INTRODUCTION

CONGRATULATIONS on your purchase of a new VHS VCP.
This VCP is an existing, new VCP designed to satisfy all your VHS tape play and recording needs.
And, with proper used and care, your new VCP will offer many year of viewing enjoyment.
Just a few of the feature include.

- NTSC PLAYBACK ON PAL TV:
  You can playback not only PAL tape but NTSC tape on PAL TV.
- LINE RECORDING (REAR OR FRONT AV JACK)
- NTSC 3.58 RECORDING & PLAYBACK
  You can record not only PAL/MESECAM but NTSC (3.58).
- QUICK START
  Various operation keys operate quickly when each of them is pressed.
- DIGITAL AUTO TRACKING
  This VCP plays clear pictures without special operations.
- AC POWER SUPPLY (AC 90-250V~)
- COMPLETE SAFETY DEVICE
  When this VCP is not in normal condition, it stops operating automatically for self-protection.
- SELF PICTURE ADJUSTMENT
  Since the HEAD DRUM rotates regularly depending on the voltage change or tape condition, the picture is always stable.
- ENCORE FUNCTION
  Press the ENCORE key on the remote control to watch the desired picture once more during playback.
- BUILT-IN WIDE RANGE MODULATOR (CH. 22- CH. 40)
- BUILT-IN MULTI RF OUT MODULATOR (PAL-G/K/I)
- AUTO REPEAT SEARCH FUNCTION
  If you press the A.REPEAT key during playback,the tape will be replayback after rewinding .
- 2 STEP PICTURE SEARCH

TABLE OF CONTENTS

NOTE: This Video Cassette Player is compatible with any Video Cassette Player bearing the VHS mark. The VCP is designed to expand your opportunities for home viewing and not for any usage which might violate the copyright laws.

Save the original shipping carton and packing materials; they will come in handy if you ever have to ship your VCP. For maximum protection, repack the set as it was originally packed at the factory.

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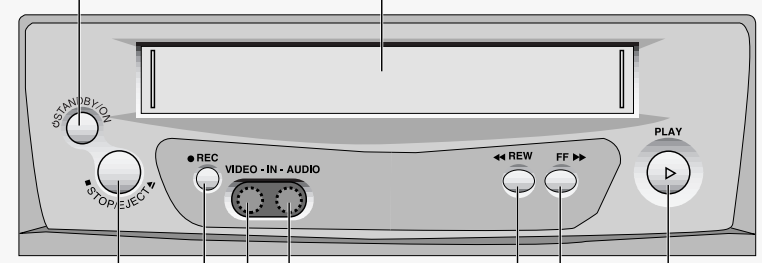
IDENTIFICATION

FRONT PANEL



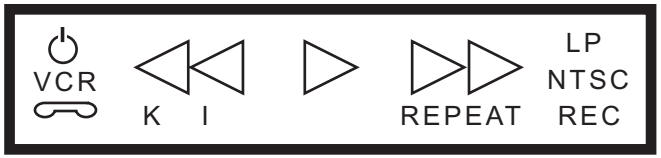
CAUTION:
Standby key won't be used to turn on (or off) the main power.

*If this key is pressed in the PLAYBACK mode, the VCP enters the Reverse Picture Search mode and if pressed in the STOP mode, tape is rewound at a high speed.

*If this key is pressed in the PLAYBACK mode, the VCP enters the Forward Picture Search mode and if pressed in the STOP mode, tape advances at a high speed.

IDENTIFICATION (continued)

FRONT PANEL DISPLAY

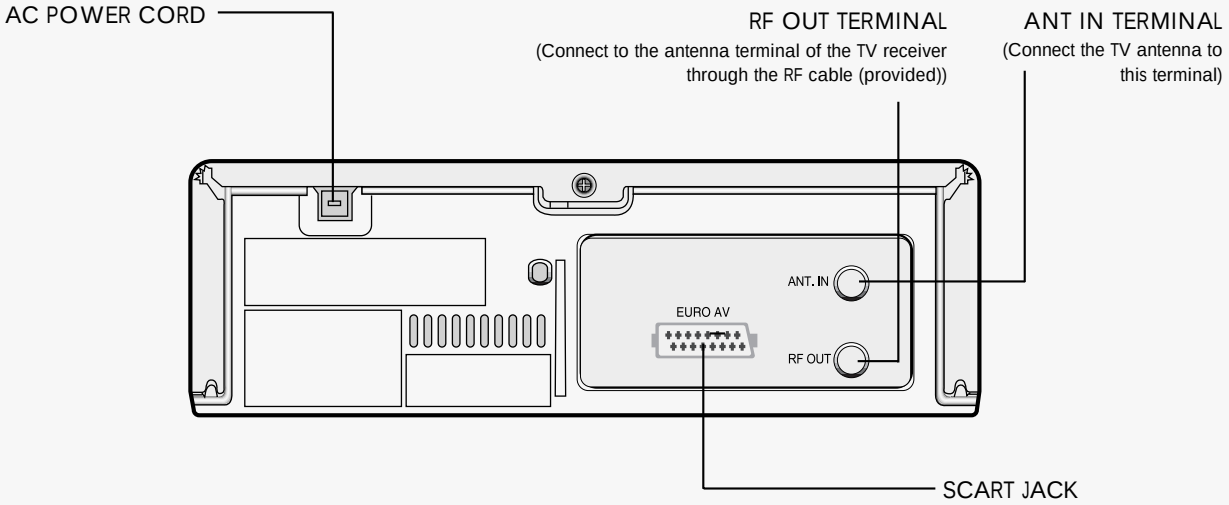


⏻	Turned on : color is red	▷	Slow
	Turned off : color is green	REC	Record
⌒	Tape Loading	▷	Record Pause
▷	Playback	▷ , REPEAT	Auto Repeat
▷▷	Fast forward		Stop
▷ " ▷▷ "	Forward Search	LP	Tape Speed (Long Play)
◁◁	Rewind	K/I	RF OUT system
" ◁◁ ", ▷	Reverse Search	NTSC	NTSC Video system
▷	Still, Frame advance		

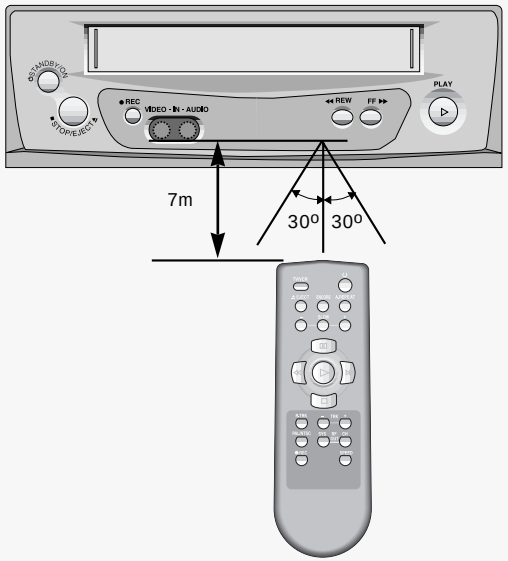
* " " means blinking.

IDENTIFICATION (continued)

REAR PANEL


AC POWER CORD
RF OUT TERMINAL
(Connect to the antenna terminal of the TV receiver through the RF cable (provided))
ANT IN TERMINAL
(Connect the TV antenna to this terminal)
ANT. IN
EURO AV
RF OUT
SCART JACK

REMOTE CONTROL OPERATION RANGE



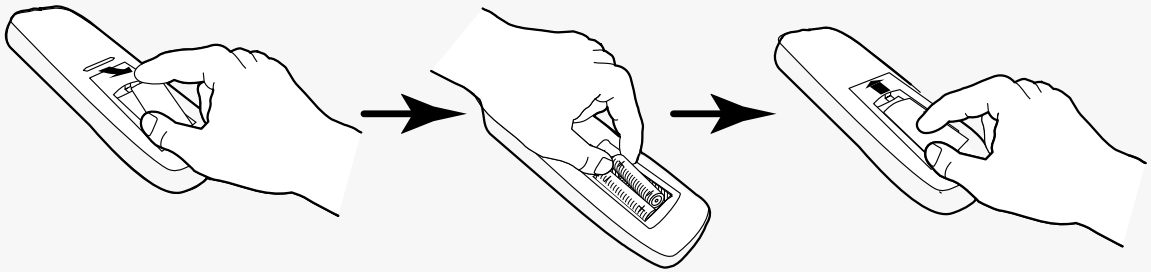
1. Any object between the remote control and VCP will block the path of beam when it is being used.
   Dark walls, direct sunshine or very bright (incandescent) light will reduce the remote control sensitivity.

2. Hold the remote control within an angle range of about 30º from either side of the remote sensor center as shown.

3. When the remote control is vertical to the remote Sensor, it will work within about 23feet (7m) from the VCP.

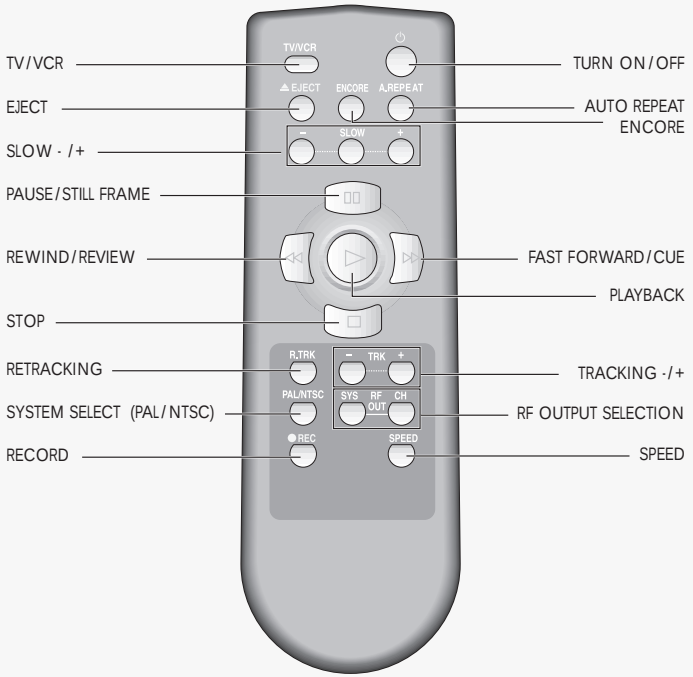
4. Point the front of the remote control directly at the front of the VCP.

BATTERY INSTALLATION



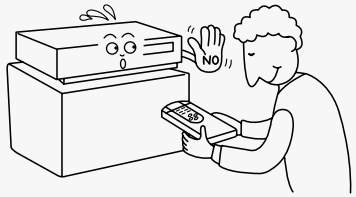
1. Remove the battery cover on the reverse side of the remote control.
2. Install 2 batteries (“AAA” size) into the remote control. (Carefully install batteries to match the polarity diagrams)
3. Close the battery cover.
   - It is advisable to take batteries out of the remote control when it is not in use for a long time.

REMOTE CONTROL BASIC FUNCTIONS



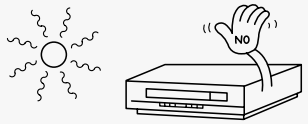
WHEN YOU USE THE REMOTE CONTROL

- Do not press two keys at the same time.



- It causes the VCP not to operate.

- Do not expose the remote sensor to the sunshine.

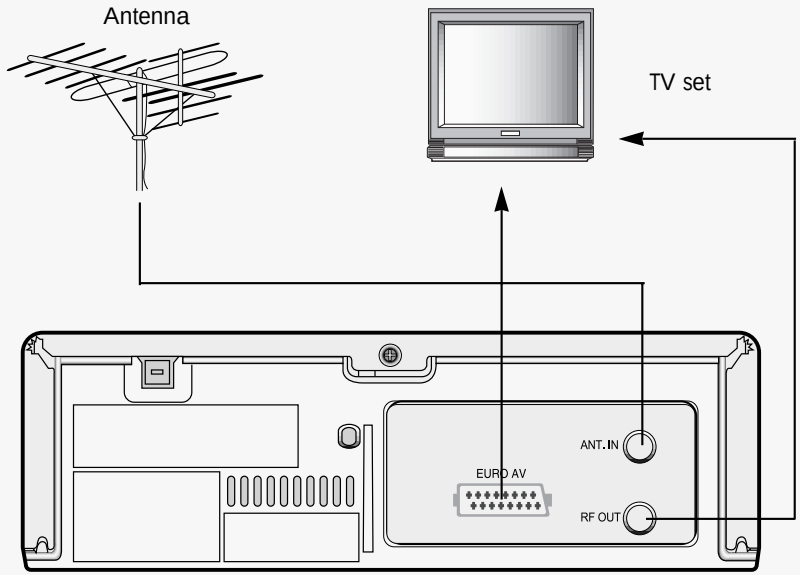


- Avoid direct sunshine and strong shock.

- Keep the remote control away from dust and moisture.

ANTENNA CONNECTION

1. Remove the Antenna Cable from the TV set. Connect it to the “ANT.IN” terminal of the VCP.
2. Connect one end of the RF cable to the “RF.OUT” terminal of the VCP.
3. Connect the other end to the “ANT.IN” terminal of the TV.



VIDEO CHANNEL SETTING

The built-in RF converter permits playback of video and audio recordings through a TV receiver. The signals from the RF converter are viewed through a vacant channel not used for broadcasting in your viewing area.

The converter channel of all units is set to UHF channel 36 prior to shipment. Setting your TV receiver to UHF channel 36 may provide video playback. But, to obtain the best possible reproduction on your TV receiver, accurate adjustment to the RF converter output is required.

VCP RF OUT CHANNEL SETTING

1. Turn on your TV.
2. Connect the ANT.IN jack on the rear panel of TV by using the RF cable.
3. Turn on the VCP to display the " ⏻ " red color indicator on the panel.
4. Press the "RF OUT CH" key on the remote control.The test pattern will be transmitted to the UHF 36 CH.
5. Tune the VCP into the test pattern channel by pressing the Channel key on your TV's remote control.
6. Tune into the channel where the interference channel is the least.
7. Tune the UHF channel by pressing the "TRK+/-" key until the test pattern appear.
8. Press the "RF OUT CH" key to memory the changed UHF channel.

VCP RF OUT SYSTEM SETTING

1. Turn on your TV.
2. Connect the ANT.IN jack on the rear panel of TV by using the RF cable.
3. Playback the tape.
4. Tune the UHF channel 36. If the sound is poor,set the RF OUT system by pressing the "RF OUT SYS" key on the remote control, the system will be rotated as follows.

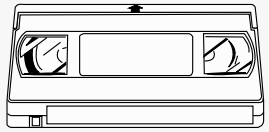
PAL-K ⟶ PAL-I ⟶ PAL-G

* CAUTION1 : PAL-G is no display.
* CAUTION2 : For VCP RF OUT Channel Setting, be sure to press the TV/VCR key and check if VCR indicator is turned off from the display panel.

CASSETTE LOADING/UNLOADING

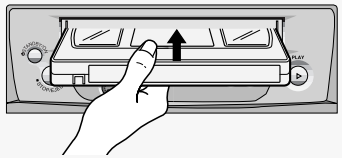
LOADING

❶ Push the cassette into the cassette compartment gently.
(Arrow mark at the top)



• An inverted cassette cannot be inserted.

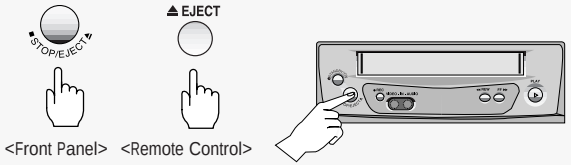
❷ The cassette indicator LED is lit up.



• Upon inserting the cassette, the power is on even if the power is off as long as the AC power cord is plugged in.

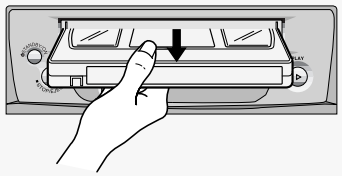
UNLOADING

❶ Press the STOP/EJECT key twice on the VCP (in the PLAYBACK mode) or press EJECT key once on the remote control. This first press will stop the tape in any mode except AUTO REPEAT. The second press will eject the tape. The cassette indicator LED will be lit out.



<Front Panel> <Remote Control>

❷ Pull the cassette out gently.

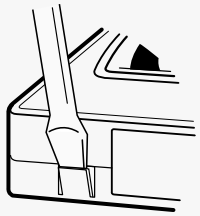


• When you press the STOP/EJECT key even if the power is off, the cassette will be ejected.

ERASURE PROTECTION

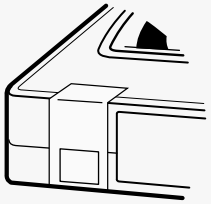
Video cassettes are equipped with a safety tab to prevent accidental erasure.
When the tab is removed, recording can not be performed.

- TO PREVENT ACCIDENTAL ERASURE



- After recording, break off the safety tab with a screwdriver if you don't want to record over the tap.

- TO RECORD AGAIN



- Cover the hold with cellophane tape.

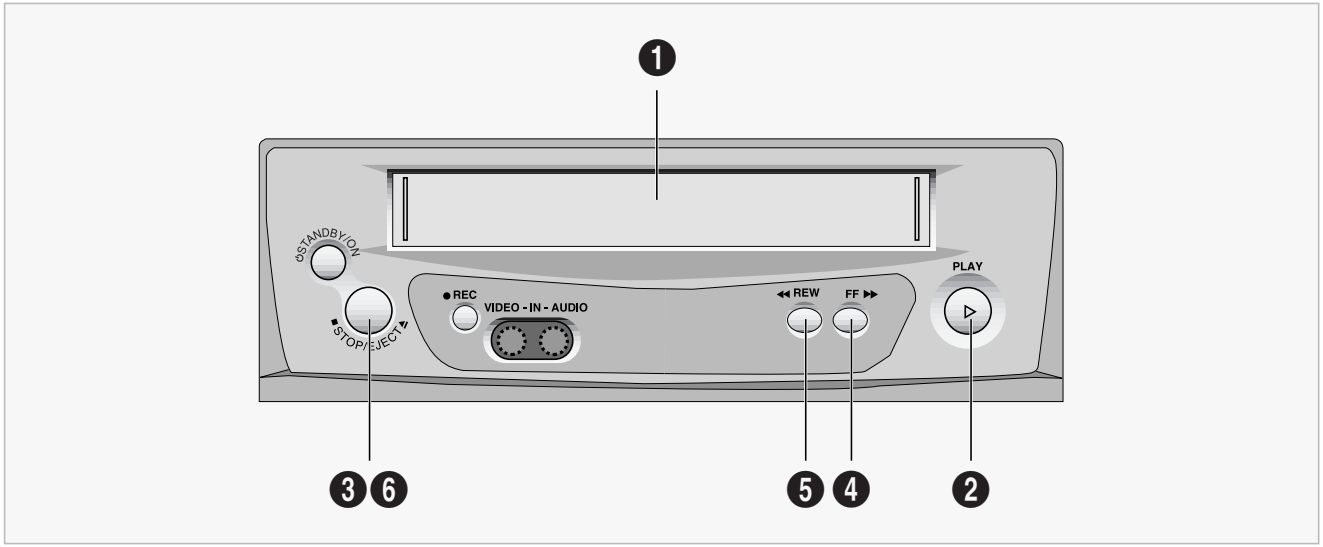
BASIC OPERATION (continued)

BASIC PLAYBACK

Each key of remote control functions identically with the keys on the front panel.

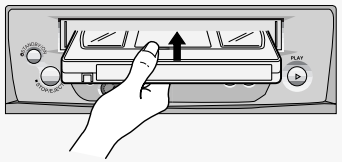
NOTE: This VCP has Full Auto Function.
If the cassette without the safety tab is inserted, the VCP will operate automatically:
"TURN ON → PLAYBACK → REWINDING → STOP."

CAUTION: When loading this VCP with double step, the audio noise may be appeared.



BASIC OPERATION (continued)

❶ LOADING

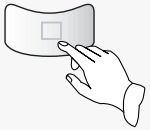


The power is on automatically when the cassette is inserted even if the power is off.

❷ PLAYBACK

Press the PLAY key, then pictures will appear within 1 second and PLAY indicator will display.
The tape is rewound automatically to the beginning after playing to the end.

❸ STOP



<Remote Control>

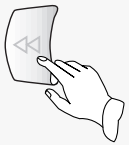
<Front Panel>

Press the STOP/EJECT key once. The tape will stop but remain fully loaded and ready to play.

❹ FAST FORWARDING

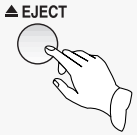
Press the FF key in the STOP mode and then FF indicator will appear. The tape advances at high speed without any picture and sound.

❺ REWINDING



Press the REW key in the STOP mode and then REW indicator will appear. The tape is rewound at high speed without any picture and sound.

❻ EJECTING



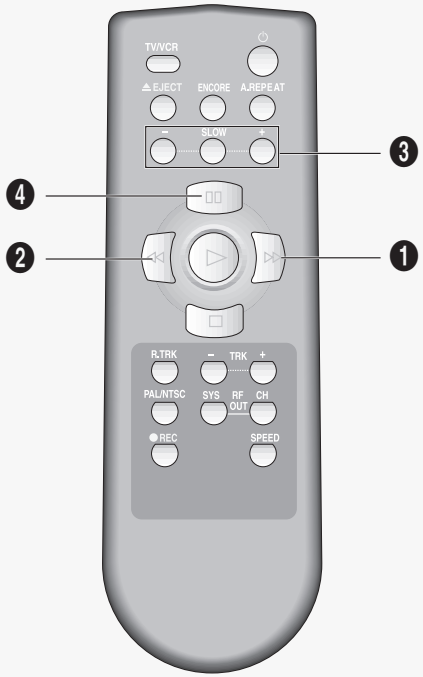
<Remote Control>

<Front Panel>

Press the STOP/EJECT key once more (in the STOP mode) on the front panel or press the EJECT key once on the remote control.

SPECIAL OPERATION

The VCP enters into the PLAYBACK mode during special operations as soon as pressing the PLAY key.

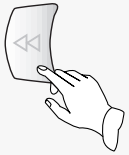


SPECIAL OPERATION (continued)

❶ TO VISUALLY SEARCH FORWARD

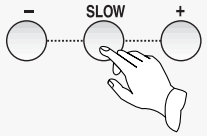
- Press the FF key once in the PLAYBACK mode. And then the tape advances rapidly with the pictures . Pressing this key once more makes the VCP advance more rapidly.

❷ TO VISUALLY SEARCH REVERSE



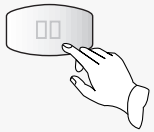
- Press the REW key once in the PLAYBACK mode. And then the tape will be rewound rapidly with the pictures. Pressing this key once more makes the VCP rewound more rapidly.

❸ TO WATCH SLOW PICTURE



- Press the SLOW key during playback. You can watch the desired frame in detail.
- Press the SLOW -/+ key during slow. It allows you to control the slow motion speed of picture.

❹ TO WATCH A STILL PICTURE



- Press the P/S key during playback. If this key is pressed on during still the picture advances frame by frame.

* CAUTION: In the Search +/- X1 mode, the picture can be flowed in a certain TV. In this time you can steady it by using the TRK+/- keys on the remote control.

SPECIAL OPERATION (continued)

AUTO REPEAT

If you press the A.REPEAT key during playback, the tape will be re-playback after rewinding.

In the A.REPEAT mode, only A.REPEAT and ⏻ key will be operated.

If you release the Auto Repeat mode, repress the A.REPEAT key on the remote control.

ENCORE FUNCTION

Press the ENCORE key on the remote control to watch the desired picture once more during playback.

The VCP rewinds the tape for about 10 seconds and will play the picture want to watch again.

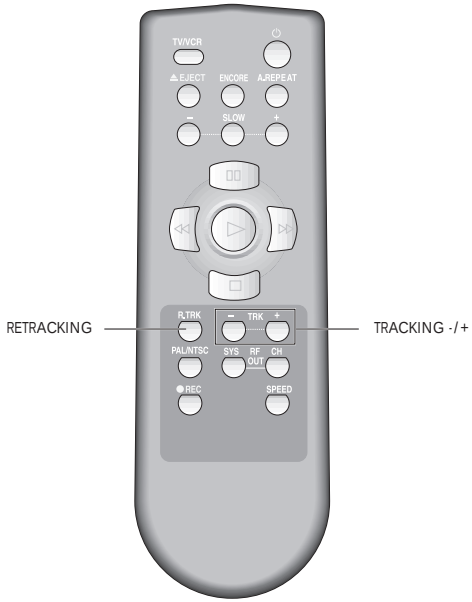
PICTURE ADJUSTMENT

AUTO TRACKING ADJUSTMENT

- Since this VCP has the Auto Tracking Adjustment function, it can play clear pictures without special operations.
- Auto Tracking Adjustment operates automatically when the cassette is inserted.
- If noise bars appear in the picture during playback, press the TRK +/ – keys to reduce the noise bars.

RETRACKING

- Press the R.TRK key when the playback picture is noisy. This VCP will control the state of playback image automatically.



VIDEO SYSTEM

RECORDING / PLAYBACK VIDEO SYSTEM

• RECORDING

This VCP is possible to record not only PAL signal, but NTSC.
This VCP select the system automatically according to the input signal (PAL or NTSC) in the record mode.

INPUT SIGNAL	RECORD SIGNAL
PAL	PAL
SECAM	MESECAM
NTSC 3.58	NTSC 3.58

• NTSC 4.43 will be recorded in black and white.

* The LED display indicator will turn on according to the Input signal. (NTSC → "NTSC" turn on)

• PLAYBACK

This VCP is possible to playback not only PAL tape, but NTSC tape.
This VCP select the system automatically according to the inserted tape (PAL or NTSC).
When inserting the PAL tape, it will playback the PAL signal.
When inserting the NTSC tape, it will playback the NTSC signal on PAL TV.
(If you have NTSC TV, the picture will be black and white then you can take color picture by pressing PAL/NTSC key on the remote control.)
If you want to playback the NTSC tape on NTSC TV, connect the NTSC TV to this VCP with the line.

* The LED display indicator will turn on according to the tape (NTSC TAPE → "NTSC" turn on).

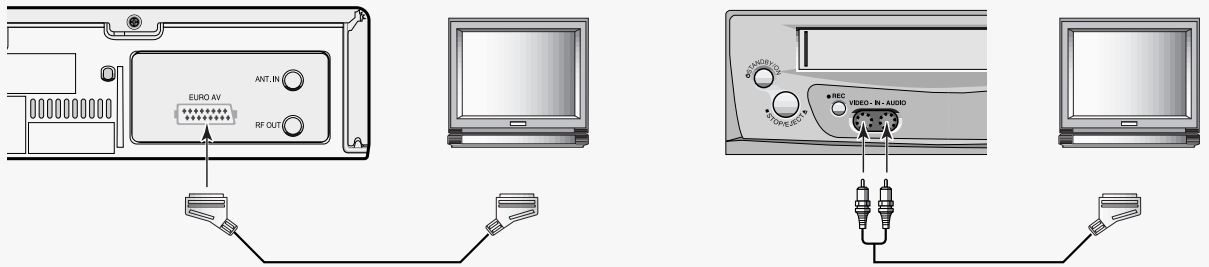
RECORDING TV PROGRAMS

Since this VCP has no its own TUNER, this has no function to receive TV broadcasting signals.
To record TV programs, please use the another TV or VCP having the function to receive TV broadcasting signals with own TUNER.

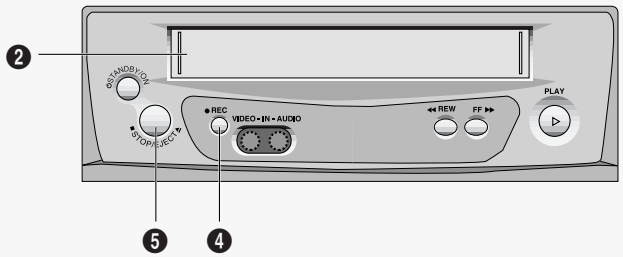
1. DIRECT RECORDING(BY TV)

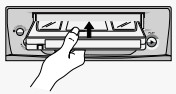
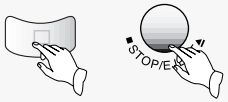
CONNECTION

• Connect the Scart jack on the TV set to the Scart jack on the rear by using Scart cable or front panel of VCP by using phone to scart cable.
(It will record Front Input Signal only if both (Front and Rear) phone A/V jack connected.)



OPERATION



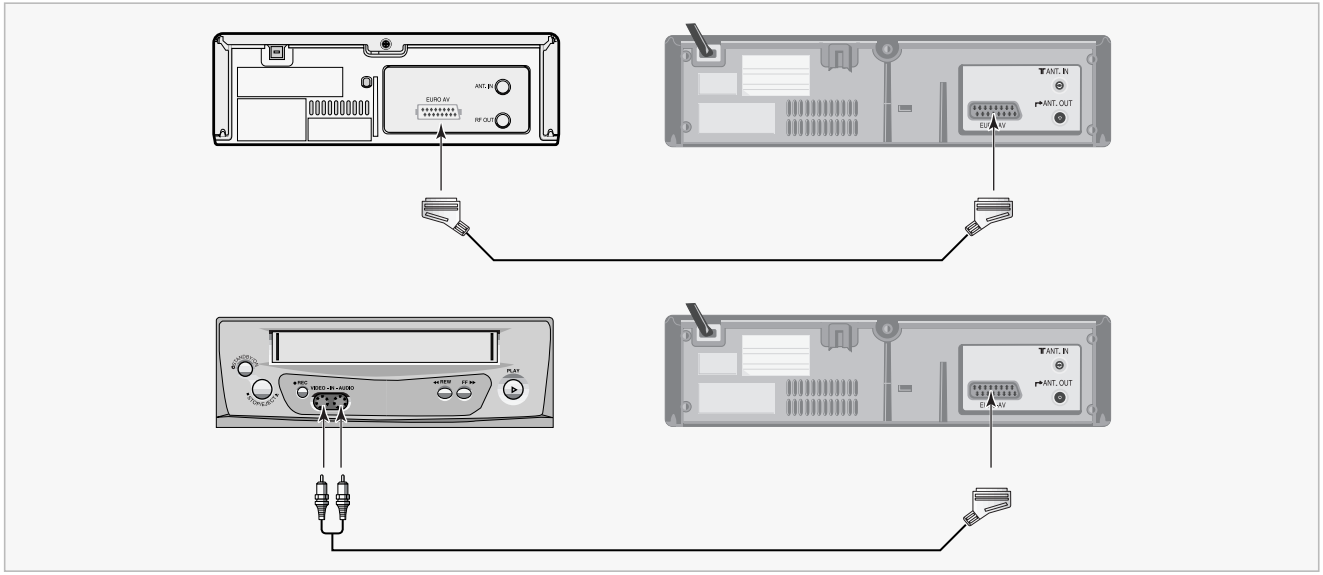
❶ PREPARATION (TV)	❷ LOADING	❸ SPEED SELECTION	❹ RECORDING	❺ STOP
Turn on the TV and select the desired CH Number to record.	Insert a blank cassette tape gently.  * Upon inserting the cassette, the power will be on even if the power is off.	Press the SPEED key to select the recording speed (SP or LP). * In NTSC record mode, the LP mode is not available.	Press the REC key. Recording will start. The REC Indicator will display.	To finish the recording, press the STOP key. 

- You can record only the same program which you are watching as follows the above steps.
- You can record the TV programs only by the TV having the Phone A/V jacks.
- Please do not turn off the power until recording is finished.

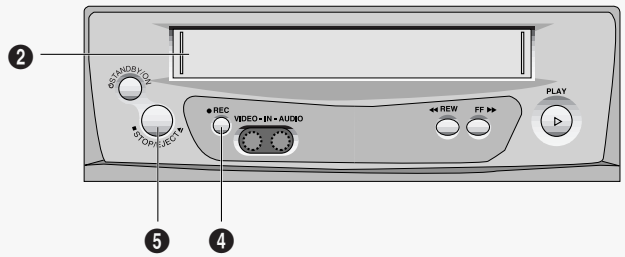
2.INDIRECT RECORDING (BY VCR WITH TUNER)

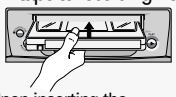
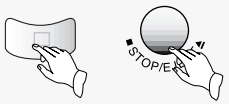
CONNECTION

- Connect the Scart jack on the another VCP set to the Scart jack on the rear by using Scart cable or front panel of VCP by using Phone to Scart cable. (It will record Front Input Signal only if both (Front and Rear) phone A/V jack connected.)



OPERATION



❶ PREPARATION (TV)	❷ LOADING	❸ SPEED SELECTION	❹ RECORDING	❺ STOP
Turn on the power of TV.	Insert a original tape to playback VCP. Insert the blank tape to recording VCP.  * Upon inserting the cassette, the power will be on even if the power is off.	Press the SPEED key to select the recording speed (SP or LP). * Only in NTSC record mode, select the SP mode.	Press the PLAY key on the playback VCP. Press the REC key on the recording VCP. The REC Indicator will display.	To interrupt the recording, press the STOP key. 

• Please do not turn off the power until recording is finished.

BEFORE CALLING SERVICE PERSONNEL

Before calling service personnel, check the following points for a possible cause of the trouble. A minor adjustment on your part may eliminate the trouble.

SYMPTOMS	POSSIBLE CAUSES
There is no power to the VCP.	Is the power cord connected?
Operation key does not function.	Is the POWER switch ON? Has a cassette been inserted?
Tape does not run in the record mode.	Has a cassette been inserted? Is the safety tab on the cassette still intact?
Picture does not appear in the playback mode.	Is the TV receiver channel selector set to an occupied channel? Set to the RF converter channel?
Tape cannot be rewinded or fast forwarded.	Is the tape already rewound or fast forwarded to the end?
Playback picture is partially noisy.	Is the TRK + or – properly adjusted?
Cassette cannot be inserted into the VCP.	Is the cassette correctly inserted? Is there a cassette already in the VCP?

SPECIFICATIONS

General		
Power requirement	:	AC 90–250V~, 50/60Hz
Power consumption	:	14 Watt
Weight	:	3.5 kg
Temperature	:	Operating: 5°C to 35°C Storage: –20°C to 60°C
Tape deck section		
Format	:	VHS standard
Video signal system	:	PAL /MESECAM /NTSC(3.58) color signal
Scanning system	:	Rotary, slant azimuth, two-head helical scan system
Tape width	:	12.65 mm
Tape speed	:	SP: 23.39 mm/sec ,LP: 11.70mm/sec ,NTSC(3.58): 33.35mm/sec
Playing time	:	180 minutes with E-180 (SP)
RF output	:	22-40CH (adjustable) 73 ±3 dBuV
Video input		1.0Vp-p, 75 ohms unbalanced, sync. negative (Scart Jack)
Video output	:	1.0Vp-p, 75 ohms unbalanced, sync. negative (Scart Jack)
Video S/N	:	More than 43dB(with Rohde & Schwarz noise meter)-PAL SP standard
Resolution of picture	:	More than 240 lines-PAL SP standard
Audio input	:	Scart-type connector more than 47K ohms, –8dBm, unbalanced
Audio output level	:	Scart-type connector more than 1K ohms, –6dBm, unbalanced
Audio S/N	:	More than 38 dB-PAL SP standard
Accessories provided	:	Instruction Manual, Remote control, 2 Batteries, RF cable

* Design and specifications are subjected to change without notice.